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| APPLICATION NO.   | FILING DATE | FIRST NAMED INVENTOR | ATTORNEY DOCKET NO. | CONFIRMATION NO. |
|---|-------------|----------------------|---------------------|------------------|
| 10/616,865  | 07/09/2003  | Martha Karen Newell  | V0139.70071.US00    | 1471             |
| 7590 11/18/2010 Helen C. Lockhart, Ph.D. Wolf, Greenfield & Sacks, P.C. |             |                      | EXAMINER            |                  |
|   |             |                      | SCHWADRON, RONALD B |                  |
| 600 Atlantic Avenue<br>Boston, MA 02210                                 |             |                      | ART UNIT            | PAPER NUMBER     |
|   |             |                      | 1644                |                  |
|   |             |                      |                     |                  |
|   |             |                      | MAIL DATE           | DELIVERY MODE    |
|   |             |                      | 11/18/2010          | PAPER            |

Please find below and/or attached an Office communication concerning this application or proceeding.

The time period for reply, if any, is set in the attached communication.

|   | Application No.  | Applicant(s)   |  |  |  |  |
|---|--|--|--|--|--|--|
| Office Action Comments  | 10/616,865   | NEWELL, MARTHA KAREN   |  |  |  |  |
| Office Action Summary   | Examiner   | Art Unit   |  |  |  |  |
|   | Ron Schwadron, Ph.D.   | 1644   |  |  |  |  |
| The MAILING DATE of this communication app<br>Period for Reply  | pears on the cover sheet with the c  | orrespondence address  |  |  |  |  |
| A SHORTENED STATUTORY PERIOD FOR REPL WHICHEVER IS LONGER, FROM THE MAILING D  - Extensions of time may be available under the provisions of 37 CFR 1.1 after SIX (6) MONTHS from the mailing date of this communication.  - If NO period for reply is specified above, the maximum statutory period  - Failure to reply within the set or extended period for reply will, by statute Any reply received by the Office later than three months after the mailin earned patent term adjustment. See 37 CFR 1.704(b). | ATE OF THIS COMMUNICATION 36(a). In no event, however, may a reply be timwill apply and will expire SIX (6) MONTHS from a cause the application to become ABANDONEI            | l. lely filed the mailing date of this communication. (35 U.S.C. § 133). |  |  |  |  |
| Status  |  |  |  |  |  |  |
| 1) Responsive to communication(s) filed on  |  |  |  |  |  |  |
| · · · · · · · · · · · · · · · · · · ·   | —·<br>s action is non-final.   |  |  |  |  |  |
| ·=  | <del>/ _</del>   |  |  |  |  |  |
| closed in accordance with the practice under I  | closed in accordance with the practice under <i>Ex parte Quayle</i> , 1935 C.D. 11, 453 O.G. 213.  |  |  |  |  |  |
| Disposition of Claims   |  |  |  |  |  |  |
| 4)⊠ Claim(s) <u>145-149</u> is/are pending in the applica   | tion.  |  |  |  |  |  |
|   | 4a) Of the above claim(s) is/are withdrawn from consideration.   |  |  |  |  |  |
| 5) Claim(s) is/are allowed.   |  |  |  |  |  |  |
| 6)⊠ Claim(s) <u>145-149</u> is/are rejected.  |  |  |  |  |  |  |
| 7) Claim(s) is/are objected to.   | Claim(s) is/are objected to.   |  |  |  |  |  |
| 8) Claim(s) are subject to restriction and/o  | r election requirement.  |  |  |  |  |  |
| Application Papers  |  |  |  |  |  |  |
| 9)☐ The specification is objected to by the Examine   | er.  |  |  |  |  |  |
| 10)☐ The drawing(s) filed on is/are: a)☐ acc  | 10) ☐ The drawing(s) filed on is/are: a) ☐ accepted or b) ☐ objected to by the Examiner.   |  |  |  |  |  |
| Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).   |  |  |  |  |  |  |
| Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).  |  |  |  |  |  |  |
| 11)☐ The oath or declaration is objected to by the E  | kaminer. Note the attached Office  | Action or form PTO-152.  |  |  |  |  |
| Priority under 35 U.S.C. § 119  |  |  |  |  |  |  |
| 12) ☐ Acknowledgment is made of a claim for foreign a) ☐ All b) ☐ Some * c) ☐ None of:  |  | -(d) or (f).   |  |  |  |  |
| -   | <ul><li>1. Certified copies of the priority documents have been received.</li><li>2. Certified copies of the priority documents have been received in Application No</li></ul> |  |  |  |  |  |
| 3. Copies of the certified copies of the priority documents have been received in Application No  |  |  |  |  |  |  |
| application from the International Bureau (PCT Rule 17.2(a)).   |  |  |  |  |  |  |
| * See the attached detailed Office action for a list of the certified copies not received.  |  |  |  |  |  |  |
|   |  |  |  |  |  |  |
| Attachment(s)   |  |  |  |  |  |  |
| 1) Notice of References Cited (PTO-892)   | 4) Interview Summary   |  |  |  |  |  |
| 2) Notice of Draftsperson's Patent Drawing Review (PTO-948)  3) Information Disclosure Statement(s) (PTO/SB/08)  Paper No(s)/Mail Date  Notice of Informal Patent Application   |  |  |  |  |  |  |
| Paper No(s)/Mail Date   | 6) Other:  | •  |  |  |  |  |

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1. The following is a quotation of the first paragraph of 35 U.S.C. 112:

The specification shall contain a written description of the invention, and of the manner and process of making and using it, in such full, clear, concise, and exact terms as to enable any person skilled in the art to which it pertains, or with which it is most nearly connected, to make and use the same and shall set forth the best mode contemplated by the inventor of carrying out his invention.

- 2. The rejection of claims 148,150 under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement for the reasons elaborated in the previous Office Action is withdrawn in view of the amended claims.
- 3. Claims 145-149 are rejected under 35 U.S.C. 112, first paragraph, as failing to comply with the written description requirement. The claim(s) contains subject matter which was not described in the specification in such a way as to reasonably convey to one skilled in the relevant art that the inventor(s), at the time the application was filed, had possession of the claimed invention.

There is no support in the specification as originally filed for the recitation of "hetero bifunctional antibody capable of crosslinking CD4" in claims 145/148. Whilst the application discloses "For instance heterobifunctional antibodies are capable of crosslinking CD4 and .alpha..beta.TCR by interacting with both molecules on the surface of the cell.", the specification does not disclose heterobifunctional antibody capable of crosslinking CD4 wherein the antibodies encompass antibodies that bind a second ligand other than alpha/beta TCR. There is no written description of the scope of the claimed invention in the specification as originally filed (aka the claimed invention constitutes new matter).

4. The following is a quotation of the appropriate paragraphs of 35 U.S.C. 102 that form the basis for the rejections under this section made in this Office action:

A person shall be entitled to a patent unless –

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(b) the invention was patented or described in a printed publication in this or a foreign country or in public use or on sale in this country, more than one year prior to the date of application for patent in the United States.

- 5. The rejection of claims 145-150 under 35 U.S.C. 102(b) as being anticipated by Meyer et al. (EP 0332865) as evidence by Hu et al. for the reasons elaborated in the previous Office Action is withdrawn in view of the amended claims.
- 6. The rejection of claims 145-150 under 35 U.S.C. 102(b) as being anticipated by Hu et al. for the reasons elaborated in the previous Office Action is withdrawn in view of the amended claims.
- 7. The rejection of claims 145-150 under 35 U.S.C. 102(b) as being anticipated by Denardo et al. for the reasons elaborated in the previous Office Action is withdrawn in view of the amended claims.
- 8. Claims 145-149 are rejected under 35 U.S.C. 102(b) as being anticipated by Khawli et al. (US 5,194,594) as evidenced by Hu et al.

Khawli et al. teaches treatment of human disease including cancer with iv (aka injected) Lym-1 antibody (wherein said antibody inherently binds HLA-DR on B cells/B cell lymphoma cells as evidenced by Hu et al., page 156, first paragraph) and diphtheria toxin (aka bacterial byproduct) (see abstract, Example 1, column 15, last two paragraphs, column 16, Example 19). Khawli et al. indicate that said antibody binds B cell lymphoma cells (see column 5, fifth paragraph). The functional properties seen upon administration of said agents in vivo are an inherent property of said method.

- 9. No claim is allowed.
- 10. Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

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A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

11. Any inquiry concerning this communication or earlier communications from the examiner should be directed to Ron Schwadron, Ph.D. whose telephone number is (571)272-0851. The examiner can normally be reached on Monday-Thursday 7:30-6:00 pm.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Ram Shukla can be reached on 571 272-0735. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR. Status information for unpublished applications is available through Private PAIR only. For more information about the PAIR system, see http://pair-direct.uspto.gov. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free). If you would like assistance from a USPTO Customer Service Representative or access to the automated information system, call 800-786-9199 (IN USA OR CANADA) or 571-272-1000.

/Ron Schwadron/ Ron Schwadron, Ph.D. Primary Examiner, Art Unit 1644 Application/Control Number: 10/616,865

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